



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
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Lieutenant Governor

Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Minerals Inspection Report

Reviewed PBB

Report Date: 10/25/2013

Mine Name: Western Zirconium Pit	Permit Number: S/057/0009	Mine Status: Active
Operator Name: WW Clyde & Co.	Inspection Date: 10/24/2013	Permit Fees: Paid
Inspector(s): M. Bradley	Inspection Time: 2:00pm	Bond Amount: \$50,000
Attendee(s): Brent Sumsion & Bryson Clyde, WW Clyde; <input checked="" type="checkbox"/>	Weather:	Bond Escalation: 05/10/2015
Inspection Purpose: Operator requesting bond release		Prior Inspection: none

Conclusions and Recommendations

Facility is still in operation removing remaining stockpile of gravel. Western Zirconium wants WW Clyde to go ahead and clear out remaining stockpiles and revegetate the site. To assist in the successful establishment of required revegetation, the Division recommends that most of the topsoil used to create the perimeter berms be distributed over the regraded hill slopes and that the heavily tracked and compacted flat areas be ripped to roughen the surface prior to applying the seed mix. Best to apply seed mix immediately after surface roughening and before mid-December.

Elements of Inspection	Evaluated & Commented	Enforcement
1. <i>Permits, Revisions, Transfer, Bonds</i> Current and up to date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. <i>Public Safety (shafts, adits, trash, signs, highwalls)</i>	<input type="checkbox"/>	<input type="checkbox"/>
3. <i>Protection of Drainages/Erosion Control</i>	<input type="checkbox"/>	<input type="checkbox"/>
4. <i>Deleterious Material</i> Facility still has a fuel tank on site that needs to be removed prior to bond release.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. <i>Roads (maintenance, surfacing, dust control, safety)</i>	<input type="checkbox"/>	<input type="checkbox"/>
6. <i>Reclamation</i> Reclamation is not yet complete. Rough grading of hill slope is done, but topsoil needs to be redistributed and compacted surfaces roughened prior to reseeding. Fuel tank, utility shed and equipment need to be removed from the site when work is finished.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. <i>Backfilling/Grading (trenches, pits, roads, highwalls, shafts)</i> Grading of excavated hillside slope is complete. There are a few remaining rock outcrops that were not disturbed and are stable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. <i>Soils</i> Topsoil stored in perimeter berms needs to be redistributed over disturbed surface prior to seed application. Most of topsoil should be applied to the regraded slope.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. <i>Revegetation</i> Not done yet.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. <i>Other</i>	<input type="checkbox"/>	<input type="checkbox"/>

Inspector's Signature: *Michael P. Bradley*

CC: PBB,mpb
Brent Sumsion, WW Clyde (bsumsion@clydeinc.com)
Robert Cunliffe, Western Zirconium, (FAX (801) 731-3854)
Jimmy K. Gentry, Weber County (jgentry@co.weber.ut.us)

File: /nrwogmfs1/OGM/GROUPS/MINERALS/WP/M057-Weber/S0570009-WesternZirconiumPit/inspections/Insp-10242013.pdf





Regraded cut in hill slope; undisturbed rock outcrops remaining; utility shed



View of remaining fuel tank and portion of rock/gravel stockpile



Remaining rock stockpile with trackhoe for loading



Disturbed flat area with remaining gravel piles and perimeter topsoil berms



Disturbed flat area with perimeter topsoil berms; excavation in background is pre-existing, not related to this site



View from center of site to the southeast with topsoil perimeter berms and heavily trafficked flat area.



View across road to where material was used to create dikes for ponds related to Western Zirconium production



Remaining stockpiles of rock and gravel, with loading equipment